



Form PTO-1449 (modified)		Atty. Docket No. SILA:099	Serial No. 10/079,058
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants AUGUSTO MARQUES ET AL.	
		Filing Date: 2/19/02	Group: 2682
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page	Other Art See Page	

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	A49	6,539,066	3/25/03	Heinen	375	334	11/10/99
✓	A50	6,343,207	1/29/02	Hessel et al.	453	86	11/3/98
✓	A51	6,002,925	12/14/99	Vu et al.	455	313	3/24/97

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

### Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation			

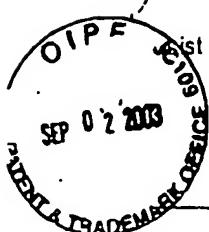
RECEIVED

SEP 04 2003

Technology Center 2600

Examiner: NGUYEN KV Date Considered: 4/19/03

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058Applicants  
AUGUSTO MARQUES ET AL.Filing Date:  
2/19/02Group:  
2682U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See PageOther Art  
See Page

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	A49	6,539,066	3/25/03	Heinen	375	334	11/10/99
✓	A50	6,343,207	1/29/02	Hessel et al.	455	80	11/3/98
✓	A51	6,002,925	12/14/99	Vu et al.	455	375	3/24/97

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation

RECEIVED

SEP 04 2003

Technology Center 2600

Examiner: NGUYEN, KV Date Considered: 20/19/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

10/079,058

List of Patents and Publications for Applicant's  
 INFORMATION DISCLOSURE STATEMENT  
 (Use several sheets if necessary)

Applicants

AUGUSTO MARQUES ET AL.

Filing Date:

2/19/02

Group:

2682

U.S. Patent Documents

See Pages 1-3

Foreign Patent Documents

See Pages 3

Other Art

See Pages 3-10



## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	A1	✓ 5,828,955	10/27/98	Lipowski et al.	455	324	8/30/95
✓	A2	✓ 6,035,186	3/7/00	Moore et al.	455	313	3/11/97
✓	A3	✓ 6,075,979	6/13/00	Holtvoeth et al.	455	RECEIVED 2002	3/5/97
✓	A4	✓ 5,764,171	6/9/98	Stikvoort	341	DEC/02/2002	4/2/96
✓	A5	✓ 6,148,048	11/14/00	Kerth et al.	375	350	9/26/97
	A6	✓ 4,713,563	12/15/87	Marshall et al.	327	361	5/12/86
	A7	✓ 4,070,632	1/24/78	Tuttle	330	85	9/22/76
	A8	✓ 4,236,252	11/25/80	Kominami et al.	455	20	2/6/79
	A9	✓ 4,680,588	7/14/87	Cantwell	342	92	12/5/85
	A10	✓ 4,857,928	8/15/89	Gailus et al.	341	143	1/28/88
	A11	✓ 4,989,074	1/29/91	Matsumoto	348	572	9/21/89
	A12	✓ 5,050,192	9/17/91	Nawata	375	345	11/21/90
	A13	✓ 5,083,304	1/21/92	Cahill	375	346	9/28/90
	A14	✓ 5,142,695	8/25/92	Roberts et al.	455	437	3/21/91
	A15	✓ 5,194,826	3/16/93	Huusko	330	302	4/12/91
	A16	✓ 5,235,410	8/10/93	Hurley	348	472	7/10/91
	A17	5,267,272	11/30/93	Cai et al.	375	346	2/14/91
	A18	5,283,578	2/1/94	Ribner et al.	341	143	11/16/92
	A19	5,345,406	9/6/94	Williams	708	309	8/25/92
	A20	5,430,890	7/4/95	Vogt et al.	455	180,3	11/20/92
✓	A21	5,442,353	8/15/95	Jackson	341	143	10/25/93
✓	A22	5,451,948	9/19/95	Jekel	341	139	2/28/94
✓	A23	5,500,645	3/19/96	Ribner et al.	341	143	3/14/94

Examiner: NGUYEN, KUDate Considered: 10/19/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

10/079,058

DE 02 2002  
O I P E  
U. S. PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

Applicants

AUGUSTO MARQUES ET AL.

Filing Date:

2/19/02

Group:

2682

U.S. Patent Documents

See Pages 1-3

Foreign Patent Documents

See Pages 3

Other Art

See Pages 3-10

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
N	A24	5,557,642	9/17/96	Williams	325	316	11/14/94
	A25	5,712,628	1/27/98	Phillips et al.	340	10,51	8/31/95
	A26	5,742,189	4/21/98	Yoshida et al.	327	113	9/14/95
	A27	5,862,465	1/19/99	Ou	455	04,2002	12/30/96
	A28	5,973,601	10/26/99	Campana	363	53,6	Technology Center 2600 12/2/97
	A29	5,758,276	5/26/98	Shirakawa et al.	455	314	5/31/96
	A30	5,740,524	4/14/98	Pace et al.	455	232,1	12/14/95
	A31	4,623,926	11/18/86	Sakamoto	348	728	11/9/836
	A32	5,341,135	8/23/94	Pearce	341	120	4/30/92
	A33	5,241,310	8/31/93	Tiemann	341	143	3/2/92
	A34	4,562,591	12/31/85	Stikvoort	381	106	2/2/84
	A35	5,243,345	2/21/92	Naus et al.	341	143	2/21/92
	A36	5,469,475	11/21/95	Voorman	375	247	5/31/91
	A37	4,912,729	3/27/90	Van Rens et al.	375	327	12/15/88
	A38	4,627,021	12/2/86	Persoon et al.	712	36	3/13/84
	A39	4,692,737	9/8/87	Stikvoort et al.	341	50	10/17/86
	A40	4,584,659	4/22/86	Stikvoort	708	313	7/5/83
	A41	4,797,845	1/10/89	Stikvoort	708	313	12/11/86
	A42	4,604,720	8/5/86	Stikvoort	708	313	3/16/84
	A43	5,157,343	10/20/92	Voorman	329	319	5/31/91
	A44	5,124,705	7/23/92	Voorman	341	141	7/10/91
	A45	4,468,790	8/28/84	Hofelt	375	245	2/16/82
N	A46	5,859,878	1/12/99	Phillips et al.	375	316	8/31/95

Examiner: NGUYEN, ICV

Date Considered: 10/19/84

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058

List of Patents and Publications for Applicant's  
**INFORMATION DISCLOSURE STATEMENT**  
 (Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.Filing Date:  
2/19/02Group:  
2682U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Other Art  
See Pages 3-10**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	A47	6,323,735	11/27/01	Welland et al.	331	361	5/25/00
✓	A48	6,167,245	12/26/00	Welland	455	260	5/29/98

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	B1	WO 00/22735	4/20/00	Ali	→	→	
✓	B2	GB2233518A	1/9/91	Dedic	→	→	RECEIVED
✓	B3	0643477A2	3/15/95	Hulkko et al.	→	→	DEC 04 2002
✓	B4	WO 00/11794	3/2/00	Moore et al.	→	→	Technology Center 2800
✓	B5	WO 00/01074	1/6/00	Van Der Zwan et al.	→	→	
✓	B6	WO 99/22456	5/6/99	Grenabo	→	→	10/27/98

**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
✓	C1	Stephen Jantzi et al, "Quadrature Bandpass ΔΣ Modulation for Digital Radio," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 1935-1950.
✓	C2	Stephen Jantzi et al, "A Complex Bandpass ΔΣ Converter For Digital Radio," ISCAS, May/June 1994, pp. 453-456.
✓	C3	"Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," Analog Devices Corporate Information Press Release, <a href="http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html">http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html</a> , September 13, 1999, pp. 1-4.

Examiner: *W GUYEN* /cv Date Considered: *10/19/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058List of Patents and Publications for Applicant's  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.

RECEIVED

DEC 04 2002

U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Filing Date:  
2/19/02Group:  
2682

Technology Center 2600

Other Art  
See Pages 3-10

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C4	Data Sheet, CX74017, "RF Transceiver for Single, Dual, or Tri-Band GSM/GPRS Applications," Conexant, January 2, 2001, pp. 1-16.
✓	C5	Jacques C. Rudell et al, "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 2071-2088.
✓	C6	Jan Crols et al., "Low-IF Topologies for High-Performance Analog Front Ends of Fully Integrated Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 45, No. 3, March 1998, pp. 269-282.
✓	C7	Jacques C. Rudell et al., "Recent Developments In High Integration Multi-Standard CMOS Transceiver for Personal Communication Systems," invited paper at the 1998 International Symposium on Low Power Electronics, Monterey, California, 6 pgs.
✓	C8	Asad Abidi, "CMOS Wireless Transceivers: The New Wave," IEEE Communications Magazine, August 1999, pp. 119-124.
✓	C9	Data Sheet, UAA3535HL, "Low Power GSM/DCS/PCS Multi-band Transceiver," Philips Semiconductors, February 17, 2000, pp. 1-24.
✓	C10	Stephen Jantzi et al., "FP 13.5: A Quadrature Bandpass $\Delta\Sigma$ Modulator for Digital Radio," Digest of Technical Papers, 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, pp. 216-217, 460.
✓	C11	S. A. Jantzi et al., "The Effects of Mismatch In Complex Bandpass $\Delta\Sigma$ Modulators," IEEE, 1996, pp. 227-230.
✓	C12	Qiuting Huang, "CMOS RF Design-The Low Power Dimension," IEEE 2000 Custom Integrated Circuits Conference, pp. 161-166.
✓	C13	Paolo Orsatti et al., "A 20-mA-Receive, 55-mA-Transmit, Single-Chip GSM Transceiver in 0.25- $\mu$ m CMOS," IEEE Journal of Solid-State Circuits, Vol. 34, No. 12, December 1999, pp. 1869-1880.
✓	C14	Qiuting Huang et al., "The Impact of Scaling Down to Deep Submicron on CMOS RF Circuits," IEEE Journal of Solid-State Circuits, Vol. 33, No. 7, July 1998, pp. 1023-1036.
✓	C15	Behzad Razavi, "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 44, No. 6, June 1997, pp. 428-435.

Examiner: NGUYEN ICJ

Date Considered:

10/19/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058

List of Patents and Publications for Applicant's  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.

RECEIVED

DEC 04 2002

Filing Date:  
2/19/02Group:  
2682 Technology Center 2800U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Other Art  
See Pages 3-10

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C16	Farbod Behbahani et al., "CMOS Mixers and Polyphase Filters for Large Image Rejection," IEEE Journal of Solid-State Circuits, Vol. 36, No. 6, June 2001, pp. 873-887.
	C17	Jan Crols et al., "A Single-Chip 900 MHz CMOS Receiver Front-End With A High Performance Low-IF Topology," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, pp. 1483-1492.
	C18	Analog Devices, Single-Chip Direct-Conversion GSM/GPRS/EDGE RFIC, Othello One, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C19	Analog Devices, AD6523/AD6524, GSM Direct Conversion Radio Chip Set, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C20	Analog Devices, GSM 3 V Transceiver IF Subsystem, AD6432, <a href="http://www.analog.com">www.analog.com</a> , pp. 1-20.
	C21	Hitachi, "RF Transceiver IC For GSM And PCN Dual Band Cellular Systems," HD155121F, ADE-207-265(Z), 1 <sup>st</sup> Edition, November 1998, pp. 1-56.
	C22	Analog Devices, AD7002 Specification, LC2MOS, GSM Baseband I/O Port, Rev. B, 1997, pp. 1-16.
	C23	Analog Devices, AD20msp415, GSM/DCS1800/PCS1900, Baseband Processing Chipset, Rev. O, 1997, pp. 1-7.
	C24	Kwentus et al., "A Single-Chip Universal Digital Satellite Receiver With 480-MHz IF Input," IEEE Journal of Solid-State Circuits, Vol. 34, No. 11, November 1999, pp. 1634-1646.
	C25	Minnis et al., "A Low-If Polyphase Receiver For GSM Using Log-Domain Signal Processing," IEEE Radio Frequency Integrated Circuits Symposium, 2000, pp. 83-86.
	C26	Atkinson et al., "A Novel Approach To Direct Conversion RF Receivers For TDMA Applications," Analog Devices, 1999, pp. 1-5.
✓	C27	Crochiere et al., "Optimum FIR Digital Filter Implementations For Decimation, Interpolation, And Narrow-Band Filtering," IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-23, No. 5, October 1975, pp. 444-456.
✓	C28	Hogenauer, "An Economical Class Of Digital Filters For Decimation And Interpolation," IEEE, 1981, pp. 155-162.
✓	C29	Brandt et al., "A Low-Power, Area-Efficient Digital Filter For Decimation And Interpolation," IEEE Journal Of Solid-State Circuits, Vol. 29, No. 6, June 1994, pp. 679-687.

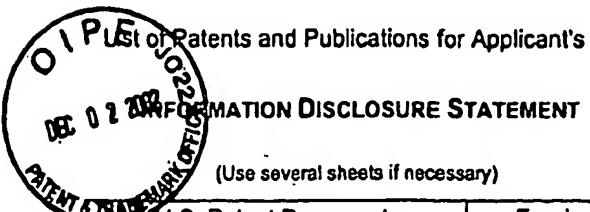
Examiner: NGUYEN KW

Date Considered:

10/19/02

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058RECEIVED  
DEC 04 2002Applicants  
AUGUSTO MARQUES ET AL.Filing Date:  
2/19/02Group: Technology Center 2800  
2682U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Other Art  
See Pages 3-10

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
W	C30	Philips Semiconductors, "uua3535-Low-Power GSM GPRS Triple-Band Near-Zero IF Transceiver," October 1999, 4 pgs.
	C31	D'Avella et al., "An Adaptive MLSE Receiver For TDMA Digital Mobile Radio," IEEE Journal On Selected Areas In Communications, Vol. 7, No.1, January 1989, pp. 122-129.
	C32	Razavi, "CMOS RF Receiver Design For Wireless LAN Applications," IEEE, 1999, pp. 275-280.
	C33	Lucent Technologies, "W3020 GSM Multiband RF Transceiver," Advance Data Sheet, December 1999, pp. 1-44.
	C34	Lucent Technologies, "DSP1620 Digital Signal Processor," Data Sheet, June 1998, pp. 1-178.
	C35	Steyaert et al., "A 2-V CMOS Cellular Transceiver Front-End," IEEE Journal of Solid-State Circuits, Vol. 35, No. 12, December 2000, pp. 1895-1907.
	C36	Paulus et al., "A CMOS IF Transceiver With Reduced Analog Complexity," IEEE Journal Of Solid-State Circuits, Vol. 33, No. 12, December 1998, pp. 2154-2159.
	C37	Analog Devices, "Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," November 1999, 4 pgs.
	C38	"Digest Of Technical Papers," 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, 5 pgs.
	C39	RF Micro Devices, RF2968, Product Description, Blue Tooth Transceiver, Rev A19, pp. 11-199-11-222.
	C40	Texas Instruments, TRF6901, "Single Chip RF Transceiver," March 2002, pp. 1-29.
	C41	Texas Instruments, TRF6900A, "Single Chip RF Transceiver," September 2001, pp. 1-34.
	C42	Texas Instruments, TRF6900, "Single-Chip RF Transceiver, October 1999, pp. 1-32.
	C43	Philips Semiconductor, "Bluetooth RF Transceiver," Data Sheet, UAA3558, December 21, 2000, pp. 1-5.
W	C44	Philips Semiconductor, "Image Reject 1.800 MHz Transceiver For DECT Applications," Data Sheet, UAA2067G, October 22, 1996, pp. 1-24.

Examiner: *Neuyear, W*Date Considered: *2/19/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058

O I P E  
List of Patents and Publications for Applicant's  
DEC 02 2002 INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.

RECEIVED

DEC 04 2002

Filing Date:  
2/19/02Group: Technology Center 2800  
2682U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Other Art  
See Pages 3-10

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C45	Philips Semiconductor, "Analog Cordless Telephone IC," Data Sheet, UAA2062, August 10, 2000, pp. 1-40.
	C46	Philips Semiconductor, "900 MHz Analog Cordless Telephone IC," Data Sheet, UAA3515A, December 12, 2001, pp. 1-44.
	C47	Philips Semiconductor, "Low Voltage IF I/Q Transceiver," Data Sheet, SA1638, September 3, 1997, pp. 1-26.
	C48	Texas Instruments, "TCS2100 GPRS Chipset Solution," Product Bulletin, 2001, 4 pgs.
	C49	Fague, "Othello: A New Direct-Conversion Radio Chip Set Eliminates IF Stages," Analog Dialogue 33-10, 1999, pp. 1-3.
	C50	Analog Devices, AD6523/AD6524, "GSM Direct Conversion Radio Chip Set," 1999, 2 pgs.
	C51	Lucent Technologies, "Lucent CSP1089 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.
	C52	Lucent Technologies, "Lucent CSP1099 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.
	C53	Lucent Technologies, "Trident," Product Brief, February 2001, 2 pgs.
	C54	Ericsson, "RF Transceiver Circuit For The Digital Enhanced Cordless Telecommunications (DECT) System," PBL40215, January 2001, pp. 1-22.
	C55	Micro Linear, "ML2712 2.4GHz Transceiver," Datasheet, August 2001, pp. 1-21.
	C56	Analog Devices, "GSM/GPRS/DCS1800.PCS1900 SoftFone Baseband Chipset," AD20msp430, 2000, 2 pgs.
	C57	RF Micro Devices, "Polaris Total Radio Solution," Press Release, 2002, 1 pg.
	C58	Tuttle, "Introduction To Wireless Receiver Design," Tutorial, 2002, pp. 2-58.
	C59	Rael et al., "Design Methodology Used In A Single-Chip CMOS 900 MHz Spread-Spectrum Wireless Transceiver," 35 <sup>th</sup> Design Automation Conference, June 1998, 6 pgs.
	C60	Troster et al., "An Interpolative Bandpass Converter On A 1.2- $\mu$ m BiCMOS Analog/Digital Array," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 4, April 1993, pp. 471-477.

Examiner: *NAUYEN, ICN*Date Considered: *2/19/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058

List of Patents and Publications for Applicant's  
**INFORMATION DISCLOSURE STATEMENT**  
 (Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.**RECEIVED**

DEC 04 2002

Filing Date:  
2/19/02Group: Technology Center 2000  
2682U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3Other Art  
See Pages 3-10**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
✓	C61	Schreier et al., "Decimation For Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE, 1990, pp. 1801-1804.
✓	C62	Shoaei et al., "Optimal (Bandpass) Continuous-Time $\Delta\Sigma$ Modulator," pp. 489-492.
✓	C63	Schreier et al., "Bandpass Sigma-Delta Modulation," Electronics Letters, Vol. 25, no. 23, November 9, 1989, pp. 1560-1561.
✓	C64	Jantzi et al., "Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE Transactions On Circuits And Systems, Vol. 38, No. 11, November 1991, pp. 1406-1409.
✓	C65	Crols et al., "An Analog Integrated Polyphase Filter For A High Performance Low-IF Receiver," Symposium On VLSI Circuits Digest Of Technical Papers, 1995, pp. 87-88.
✓	C66	Aziz et al., "Performance Of Complex Noise Transfer Functions In Bandpass And Multi Band Sigma Delta Systems," IEEE, 1995, pp. 641-644.
✓	C67	Jantzi, "A Fourth-Order Bandpass Sigma-Delta Modulator," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 3, March 1993, pp. 282-291.
✓	C68	Liu et al., "Switched-Capacitor Implementation Of Complex Filters," IEEE International Symposium On Circuits And Systems, Vol. 3, 1986, 5 pgs.
✓	C69	Sedra et al., "Complex Analog Bandpass Filters Designed By Linearly Shifting Real Low-Pass Prototypes," IEEE International Symposium On Circuits And Systems, Vol. 3, 1985, 5 pgs.
✓	C70	Thurston et al., "Bandpass Implementation Of The Sigma-Delta A-D Conversion Technique," International Conference On Analogue To Digital And Digital To Analogue Conversion, September 1991, 7 pgs.
✓	C71	Rudell, et al., "Second Generation Multi-Standard Monolithic CMOS RF Transceiver," University of California, Berkeley, Slides 1 through 9 (June 1996)
✓	C72	Cho, et al., "Multi-Standard Monolithic CMOS RF Transceiver," University of California, Berkeley, Slides 1 through 26 (June 1996)
✓	C73	Copending U.S. Patent Application Serial No. 09/821,342, filed March 29, 2001, "Partitioned Radio-Frequency Apparatus And Associated Method" (SILA:072)
✓	C74	Copending U.S. Patent Application Serial No. 09/821,340, filed March 29, 2001, "Digital Interface In Radio-Frequency Apparatus And Associated Methods" (SILA:073)

Examiner: *NGUYEN, KW*Date Considered: *10/19/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:099Serial No.  
10/079,058

O I P  
U. S. Patent and Trademark Office  
DEPT. OF COMMERCE  
DECEMBER 2002  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)

Applicants  
AUGUSTO MARQUES ET AL.

RECEIVED

DEC 04 2002

Filing Date:  
2/19/02Group:  
2682 Technology Center 2000U.S. Patent Documents  
See Pages 1-3Foreign Patent Documents  
See Pages 3-Other Art  
See Pages 3-10

## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C75	Copending U.S. Patent Application Serial No. 10/075,094, filed February 13, 2002, "Radio-Frequency Communication Apparatus And Associated Methods" (Sila:074)
	C76	Copending U.S. Patent Application Serial No. 10/075,098, filed February 13, 2002, "Apparatus And Methods For Generating Radio Frequencies In Communication Circuitry" (Sila:075)
	C77	Copending U.S. Patent Application Serial No. 10/075,122, filed February 12, 2002, "Digital Architecture For Radio-Frequency Apparatus And Associated Methods" (Sila:078)
	C78	Copending U.S. Patent Application Serial No. 10/083,633, filed February 26, 2002, "Apparatus And Methods For Calibrating Signal-Processing Circuitry" (Sila:080)
	C79	Copending U.S. Patent Application Serial No. 10/081,121, filed February 22, 2002, "Calibrated Low-Noise Current And Voltage References And Associated Methods" (Sila:095)
	C80	Copending U.S. Patent Application Serial No. 10/074,591, filed February 13, 2002, "Apparatus For Generating Multiple Radio Frequencies In Communication Circuitry And Associated Methods" (Sila:096)
	C81	Copending U.S. Patent Application Serial No. 10/075,099, filed February 12, 2002, "Notch Filter For DC Offset Reduction In Radio-Frequency Apparatus And Associated Methods" (Sila:097)
	C82	Copending U.S. Patent Application Serial No. 10/074,676, filed February 12, 2002, "DC Offset Reduction In Radio-Frequency Apparatus And Associated Methods" (Sila:098)
	C83	Copending U.S. Patent Application Serial No. 10/079,058, filed February 19, 2002, "Apparatus And Methods For Output Buffer Circuitry With Constant Output Power In Radio-Frequency Circuitry" (Sila:099)
	C84	Copending U.S. Patent Application Serial No. 10/081,730, filed February 22, 2002, "Method And Apparatus For Synthesizing High-Frequency Signals For Wireless Communications" (Sila:106)
✓	C85	Copending U.S. Patent Application Serial No. 10/079,057, filed February 19, 2002, "Apparatus And Method For Front-End Circuitry In Radio-Frequency Apparatus" (Sila:107)
✓	C86	Allen, "Complex Analog Filters Obtained From Shifted Lowpass Prototypes," September 1985, 118 pgs.

Examiner: *NGUYEN, KV*

Date Considered:

*2/19/02*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 (modified)		Atty. Docket No. SILA:099	Serial No. 10/079,088
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		RECEIVED Applicants AUGUSTO MARQUES ET AL. DEC 04 2002 Technology Center 2600	
U.S. Patent Documents See Pages 1-3		Filing Date: 2/19/02	Group: 2682
Foreign Patent Documents See Pages 3		Other Art See Pages 3-10	

### Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C87	Motorola Communications Semiconductor Product Division, "A 1.9 GHz Chipset For PCS Applications," Microwave Journal, No. 6, June 1995, 3 pgs.
✓	C88	Search Report for PCT/US02/00896; October 4, 2002; 7 pgs.
✓	C89	Copending U.S. Patent Application Serial No. 09/708,339, filed November 8, 2000, "Method And Apparatus For Operating A PLL With A Phase Detector/Sample Hold Circuit For Synthesizing High-Frequency Signals For Wireless Communications" (Sila:035C1)
✓	C90	Copending U.S. Patent Application Serial No. 09/999,702, filed October 31, 2001, "Method And Apparatus For Synthesizing Dual Band High-Frequency Signals For Wireless Communications" (Sila:060C1)
✓	C91	Search Report for PCT/US02/00895; November 11, 2002; 6 pgs.

Examiner: <i>Nguyen, LN</i>	Date Considered: <i>10/19/02</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	